

32 • Electrostatics**32.1 WORKSHEET – ELECTRIC CHARGES**

1. Anthes rubs two latex balloons against her hair, causing the balloons to become charged negatively with 2.0×10^{-4} C. She holds them a distance of 0.70 m apart.

(a) What is the electrostatic force between the two balloons?

$$\begin{array}{ll} q_1 = -2.0 \times 10^{-4} \text{ C} & F = \\ q_2 = -2.0 \times 10^{-4} \text{ C} & = \\ d = 0.70 \text{ m} & = +0.073 \text{ N} \end{array}$$

(b) Is it one of attraction or repulsion?

Repulsion since $F > 0$

2. Two pieces of puffed rice become equally charged as they are poured out of the box and into Kirk's cereal bowl. If the force between the puffed rice is 4×10^{-22} N when the pieces are 0.03 m apart, what is the charge on each of the pieces?

$$\begin{array}{ll} q_1 = q_2 = q & F = \\ F = 4 \times 10^{-22} \text{ N} & (4 \times 10^{-22} \text{ N}) = \\ d = 0.03 \text{ m} & q = 2.0 \times 10^{-12} \text{ C} \end{array}$$

3. When sugar is poured from the box into the sugar bowl, the rubbing of sugar grains creates a static electric charge that repels the grains, and causes sugar to go flying out in all directions. If two sugar grains each acquire a charge of 3.0×10^{-12} C at a separation of 8.0×10^{-2} m, with what force will they repel each other?

$$\begin{array}{ll} q_1 = 3.0 \times 10^{-12} \text{ C} & F = \\ q_2 = 3.0 \times 10^{-12} \text{ C} & = 1.3 \times 10^{-9} \text{ N} \\ d = 8.0 \times 10^{-2} \text{ m} & \end{array}$$

4. Boppo, the clown, carries two mylar balloons that rub against a circus elephant, causing the balloons to separate. Each balloon acquires 2.0×10^{-7} C of charge. How large is the electrostatic force between them when they are separated by a distance of 0.50 m?

$$\begin{array}{ll} q_1 = 2.0 \times 10^{-7} \text{ C} & F = \\ q_2 = 2.0 \times 10^{-7} \text{ C} & = 1.4 \times 10^{-4} \text{ N} \\ d = 0.50 \text{ m} & \end{array}$$

5. Inez uses hairspray on her hair each morning before going to school. The spray spreads out before reaching her hair partly because of the electrostatic charge on the hairspray droplets. If two drops of hairspray repel each other with a force of 9.0×10^{-4} N at a distance of 0.070 cm, what is the charge on each of the equally-charged drops of hairspray?

$$\begin{array}{ll} q_1 = q_2 = q & F = \\ F = 9.0 \times 10^{-4} \text{ N} & (9.0 \times 10^{-4} \text{ N}) = \\ d = 0.00070 \text{ m} & q = 7.0 \times 10^{-12} \text{ C} \end{array}$$

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JS Bruner



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